"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
FEDOROV, Al.A., doktor biol. nauk, prof., red.; ZOTOVA, A.P., red.; SHERMUSHENKO, T.A., tekhn. red.

[Useful and noxious plants of Leningrad Province] Poleznye i vrednye rasteniia Leningradskoi oblasti. Leningrad, Lenizdat, 1963. 172 p. (MIRA 17:3) "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-005138002065510007-5
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-005138002065510007-5
ANTONOVA, Tat'yana Sorgeyevna; ZOTOVA, A.P., red.; LEVONEVSKATA, L.G., tekhn. red.

[High cabbage yields] Vysokie urozhai kapusty. Leningrad, Lenizdat, 1960. 18 p. (Cabbage)

(Cabbage)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RD986-00513R002065510007-5"
APPRINTON RELEASE: Thursday, September 26,

ZOTOVA, "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

Inst. Vaccines and Sera, Leningrad, (-1944-).

"Purification of tetanus and anatoxin by means of dialysis and electro-dialysis." Zhur. Mikrobiol., Epidemiol., i Immunobiol., No. 1-2, 1944.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"

OLAZUNOV, P.D., starshiy ingh.: DANILKNKO, N.M., starshiy ingh.: ZHUKOV, V.K., starshiy ingh.; ZUYHV, A.I., obshchiy red.; ZOTOVA, A.P., red.; TIKHONOVA, I.M., cekhn.red.

[Efficiency-improving suggestions from agricultural machinery operators; practices of machinery operators on collective farms and state farms and at repair and improvement stations.] Ratsionalizatorskie predlosheniia mekhanizatorov seliskogo khozisistva; is opyta raboty mekhanizatorov kolkhozov, sovkhozov, remontnotekhnicheskikh i meliorativnykh stantsii Leningradskoi oblasti. Leningrad, Lenizdat, 1959. 119 p. (MIRA 13:3)

1. Leningradskoye oblastnoye upravleniye sel'skogo khozyaystva (for Glazunov, Danilenko, Zhukov). 2. Glavnyy inzhener Leningradskogo oblastnogo upravleniya sel'skogo khozyaystva (for Euyev).

(Agricultural muchinery)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"

RADA, Boris Frantsevich; Hidenbom, Favel Borisovich; ANSIN, Andrey Nikolayevich; ZO10VA, A.P., red.

[Carrots and parsloy] Morkov' i petrushka. Leningral, Lenizdat, 1965. 41 p. (MIRA 18:10)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

GAVRILOV, I.S.; ZOTOVA, A.P., red.

[Home processing of vegetables, fruits, and berries]
Pererabotka ovoshchei, plodov i isgod v domashnikh usloviiakh. Leningrad, Lenizdat, 1965. 158 p.

(MIRA 18:12

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

YAKOVLEVA, G.A., inzh.; ZOTOVA, A.S., inzh.

Selecting an efficient type of cement concrete plant. Avt.dor. 25 no.1:15-16 Ja '62. (MIRA 15:2)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065510007-5
CIA-RDP86-00513R002065510007-5"

MEYERSON, A.B., kand. ekonom. nauk; ZOTOVA. A.S., inzh., KARINH, Yu.S., inzh.

Longterm organization of a motortruck unit. Avt. dor. 28 nc.9: 23-24 S '65. (NIRA 18:10)

SFERANSKIY, N.I.; GLAGOLEVA, N.A.; ZOTOVA, A.T.; LEONUVA, V.M.; ROZENBLIT, Ye.I.; STUDNITSYNA, L.A.

Result of using aeroion therapy in hypertension and stenocardia. Vop.kur., fizioter. i lech. fiz. kul't. 28 no.2:130-135 Mr-Ap'63. (MIRA 16:9)

1. Iz terapevticheskogo otdeleniya (zav. - prof. N.I. Speranskiy)
kliniki TSentral'nogo instituta kurortologii i fizioterapii
(dir. - kand. med.nauk G.N.Pospelova)
(HYPERTENSION) (AIR, IONIZED_THERAPEUTIC USE)
(ANGINA PECTORIS)

SPERANSKIY, N. I.; GLAGOLEVA, N. A.; ZOTOVA, A. T.; LEONOVA, V. M.; ROZENBLIT, Ye. I.; STUDNITSYNA, L. A. (Moskva)

Treatment of stenocardia with novocaine electrophoresis in Zakharin-Head' zones. Klin. med. no.9:103-106 '61. (MIRA 15:6)

1. Iz terapevticheskoy kliniki (zav. - prof. N. I. Speranskiy) TSentral'nogo instituta kurortologii i fizioterapii (dir. G. N. Pospelova)

(ANGINA PECTORIS) (NOVOCAINE)

MINKINA, V.A.; ZOTOVA, A.V.; KRASMODYMSKAYA, G.N.

Experience in therapeutic and prophylactic work in the school. Pediatriia no.8:8-11 '62. (MIRA 15:10)

1. Iz otdela organizatsii detskogo zdravookhraneniya (zav. - prof. A.G.TSeytlin) Gosudarstvennogo nauchno-issledovateliskogo pediatricheskogo instituta (dir. - kandidat meditsinskikh nauk V.P.Spirina).

(SCHOOL HYGIENE)

Abs Jour: Ref Zhur-Biol., No 11, 1958, 51485.

Author : Zotova, E. E., Nikitina, V. A., Sluchevskiy, I. F.

Inst : Not given.

Title : On the Problem of Immunity in Psychic Disorders.

Orig Pub: Sb. Psikhiatr. klinika i probl. patol, vyssh.

nervn. deyat-sti, Vyp. 2, L., 1957, 220-235.

Abstract: The immunological reaction to typhoid vaccination

was studied in 29 patients with schizophrenia, paraphrenia, cyclothymia etc. The original ag-glutinization (AT) titer in 21 patients was 1:50-1:200. The increase of AT as a result of vaccination was insignificant and reversible. (For inst.: AT prior to vaccination, 1:100, - after the third and fourth - 1:400, 1:50).

Card 1/1

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5" CIA-RDP86-00513R002065510007-5" APPROVED FOR RELEASE: Thursday, September 26, 2002 DORTMAN, Nina Borisovna, MARILATEVAL Valentina Porting Billia Ivanovna; VEYNBERG, A.K.; DUBINCHIK, E.Ya.; ZHDANOV, V.V.; ZOTOVA, I.F.; ILAVEV, M.G.; TRUNINA, V.Ya.; KEOREVA, B.Ya.; SHOLPO, L.Ye.; GIPEYEVA, G.M., red.; KAIMYKOVA, I.A.,

ved. red.

[Physical properties of rocks and minerals in the U.S.S.R.] Fizicheskie svoistva gornykh porod i poleznykh iskopaemykh SSSR. Moskva, Nedra, 1964. 325 p. (MIRA 18:1)

1. Leningrad. Vsesoyuznyy geologicheskiy institut.

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"

MOSKALEVA, S.V.; ZOTOVA, I.F.

Magnetic properties of ultrabasic rocks. Dokl. AN SSSR 162 no.1:70.-73

My '65.

1. Vsesoyuznyy nauchno-issledovatel skiy geologicheskiy institut.

Submitted August 6, 1964.

<u>. 51.</u>	to	เสาณ	APPROVE	ED FOR RELEA	ASE: SE:	Thu	ırsday, rsday,	Septemb Septemb	ber 26, 200 er 26, 2002	CIA-RI	DP86-0	3051 0513	3R0020	16551 6551	000	7-5"	-1111	كألت	1 <u>, 1 ((1)) - 114</u>	1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.1.	al Marita Harri	Heren Indones	
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Ch. III. Eagnetic preperties of rocks - - 93 Ch. IV. Specific electrical resistance of rooks - 172 Ch. V. Rate of prepagation of longitudinal elastic waves in recks - - 193 Ch. VI. Change in physical preperties of rocks, depending on manifold pressure Card 2/3

CIA-RDP86-00513R002065510007-5

CIA-RDP86-00513R00206551007-5

CIA-RDP86-00513R0020651007-5

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

GOFMAN, I.L.; ZOTOVA, K.S.; ALEKSASHINA, L.M.; Prinimali uchastiye: VINNIK, M.M.; LYSENKO, M.G.; BAKARINOVA, N.M.; NIKITINA, N.A.

Preparation of a tetrasodium pyrophosphate decahydrate food product based on phosphoric acid obtained by the extraction method. Khim.-prom. no.9:630-632 S '62. (MIRA 15:11)

1. Nauchno-issledovatel'skiy institut po udobreniyam i insektofungisidam imeni Samoylova i Opytnyy zavod Nauchno-issledovatel'skogo instituta po udobreniyam i insektofungisidam imeni Samoylova. (Phosphoric acid) (Sodium pyrophosphate) 5 (4) AUTHORS:

Trapeznikov, A. A., Zotova, K. V.

SOV/20-128-2-32/59

TITLE:

The Formation of Thixotropic Structure in an OT Aerosolsucrose Solution and in Bilateral Films Formel by It, and the Effect of This Structure on the Stability of Foams

PERIODICAL:

Doklady Akademii nauk SSSR, 1959, Vol 128, Nr 2, pp 337-340 (USER)

ABSTRACT:

The viscosity and elasticity of bilateral films (shortly called film in the following) was investigated by means of the method of horizontal concentric rings as described in reference 2. The aerosal OT used (dioatylester of sulfosuccinic acid) forms stable films. To study the effect of the sucrose, which is used to raise the stability of feams, OT-solutions (0.045 mol/1) were treated with 1.4 mol/1 of sucrose. The results show (Table 1) that the property of the film greatly depends on an aging process. In newly prepared solutions no effect of sucrose on the viscosity is noticed, whereas viscosity increases by 300 times in about 100 days. If the measurement of the film property of an aged solution is repeated several times, the viscosity of the film decreases to the original amount of the fresh solution (Table 2). This was also confirmed by direct measurement of the solution viscosity (Table 3). After some

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002005510007-5" CIA-RDP86-00513R002005510007-5"

The Formation of Thiretropic Structure in an OT SOY/20-128-2-32/59 Aerosol-sucrose Solution and in Bilateral Films Formed by It, and the Effect of This Structure on the Stability of Forms

rest of the film viscosity increases again (Table 4). A similar fact was observed when investigating four stability, Whereas froms produced by careful stirring proved a stability depending on the age of the solution, the foun of a violently stirred solution collapses as fast as the foam of a nawly prepared solution (Fig 1). Therefore a thiretropic structure of the solution mixed with sucress is assumed, which is again destroyed by mechanical action. The stabilization of the foam and the film of an aged solution is reached by retarding aged solutions are colorless and about 1,4 thick, while films of with disturbed structure become thin quickly and show intermorence colors. There are I figure, 4 tables, and 4 references,

ASSOCIATION:

Institut fizicheskoy khimii Akademii mauk SSSR (Institute of Physical Chemistry of the Anademy of Spiences, USSR)

Card 2/3

'APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5

2000VR FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R00206510007-5

2000VR FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R00206510007-5

2000VR FOR RELEASE:

AUTHORS:

Zotova, K. V., and Trapeznikov, A. A.

20-117-5-30/54

TITLE:

Shear Strength of Two-sided Films and Surface Layers in Saponin Some lutions (Sdvigovaya prochnost! dvustoronnikh plenok i poverkhnost nykh sloyev v rastvorakh saponina).

PERIODICAL:

Doklady AN SSSR, 1957, Vol. 117, Nr 5, pp. 833-836 (USSR).

ABSTRACT:

The simultaneous investigation of the mechanical properties of mambranical films and of surface layers at differing concentrations represents a new method for the study of the properties and of the composition of two-sided films. The present paper employs the method of shear strength of surface layers and of two-sided films. Two concentrations consisting of platinum wire with a diameter of 0,1 cm and the tric rings consisting of platinum wire with a diameter of 0,1 cm and with the radii R₁ = 2,738 cm and R₂ = 2,995 cm were mounted in a home

rizontal position. The further set up of the experimental arrangement is described. The authors investigated various saponines, which obvisously display widely differing abilities for the formation of films and of foam and different mechanical properties. Here, imported and Sovietic saponines were examined. The present paper investigates the data of one of the imported saponines, that is to say Kahlbaum (Kalizata of one of the imported saponines, that is to say Kahlbaum (continue), which formed films of a comparative stability and with good

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

20-1114-1- W.S.

Shear Strength of Two-sided Films and Surface Layers in Saponin

mechanical properties between the rings. A diagram illustrates the curves of the dependence of the deformation 2 on the shear strength for the two-cided films, which were produced from solutions with varying concentrations. If P reaches a certain value $P = P_r$, them Σ increases particularly quickly. This speaks in favour of a flowing, which is connected with a destruction of structure. A further diagram illustrates the curves of the dependence of Σ on P of surface layers in identical saponine solutions. In general, they resemble the curves of the films, they show, however, a less marked transition to the vertical domain, which characterises the destruction of structure and the flowing process. The quantity P_{r} of the surface layers increases continuously with an increasing concentration, the quantity $P_{\mathbf{r}}$ of the films produced from the same solutions passes through a sharp maximum in the range of comparatively low concentrations of the solution. The strength of the adsorption layer of the film reaches only half the amount of the strength of the surface. Without doubt, even saponines carefully purified contain components with a differing surface activity, even the more the cheaper varieties, which are differing by their molecular structure. The results found here permit the expla-

Card 2/3

Shear Strength of Two-sided Films and Surface Layers in Saponin 20-117-5-30/54

nation of numerous peculiarities of the stability of feams. There are 4 figures, and 6 Slavic references.

Institute for Physical Chemistry AS USSR (Institut fizicheskoy khi= ASSOCIATION:

PRESENTED: June 11, 1957, by P. A. Rebinder, Academician.

SUBMITTED: June 1, 1957.

Card 3/3

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065510007-5"
CIA-RDP86-00513R002065510007-5"

ZOTOVA, K.V.; TRAPEZNIKOV, A.A.

Structural and mechanical properties of surface layers in solutions of saponins and of two-sided films formed by them.

Koll.zhur. 26 no.2:190-197 Mr-Ap '64. (MIRA 17:4)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065510007-5
CIA-RDP86-00513R002065510007-5

ZOTOVA, K.V.; TRAPEZNIKOV, A.A.

Stability of films and foams and mechanical properties of films from solutions of saponins, alkaryl sulfonates, and esters of sulfosuccinic acid. Koll. zhur. 26 no.3: 312-317 My-Jo 164 (MIRA 17:9)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVA, K.V.; TRAPEZNIKOV, A.A.

Shear strength of two-sided films and surface layers in saponin solutions. Dokl. AN SSSR 117 no.5:833-836 D '57. (MIRA 11:3)

1. Institut fizicheskoy khimii Akademii nauk SSSR. Predstavleno akademikom P.A.Rebinderom.
(Saponins) (Film coefficients (Physics))

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TRAPENNIKAV, A.A., ZOTOVA, K.V.

techanical properties of the adsorption layers of suponic at the interfaces of squeeus solution - column and squeeus eclusion - tolumn rubber solution. Foll, thur, 27 no.4: 614-618 Shap 165. (MIRA 18:12)

1. Institut filalcheskoy khimis fil $808\mathrm{R}_{\odot}$ Moskva, Sulmitted July 9, 3965.

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ZOTOVA, L., aspirantka.

Cost of aeronautical chemical work. Grashd.av. 14 no.1:34 Ja '57. (MERA 10:4)

1. Hoskovskiy inshenerno-ekonomicheskiy institut imeni Sergo Ordshonikidze.

(Aeronautics in agriculture) (Spraying and dusting)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

SHALIMOV, Fedor Andreyevich; ZOTOVA, L.A., red.

[Winged assistants of agriculture] Krylatys pomoshchniki zemledel'tsa. Moskva, Znanie, 1964. 24 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.23) (MIRA 17:11)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5

TARNOVICH, Nikolay Konstantinovich; ZOTOVA, L.A., red.

[Mechanization of the chemical protection of plants]

Mekhanizatsiia khimicheskoi zashchity rastenii. Mosskva, Znanie, 1964. 32 p. (Novoe v zhizni, nauke, tekhnike. V Seriia; Sel'skoe khoziaistvo, no.22)

(MIRA 17:11)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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APPROVED FOR RELEASE: Thursday, September 26, 2002
CIA-RDP86-00513R002065510007-5"
CIA-RDP86-00513R002065510007-5"

KOROVKIN, Ivan Petrovich; ZOTOVA, L.A., red.

[Suburban agricultural factories] Sel'skokhoziaistveimye fabriki prigoroda. Moskva, Znanie, 1964. 46 p. (Novoe v zhizni, nauke, tekhnike. V Seriiai Sel'skoe khoziaistvo, no.21) (MIRA 17:11)

THE REPORT OF THE PROPERTY OF "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

GAR, Konstantin Arkad'yevich; BOBNEVA, N.P., red.; ZOTCWA, E.A., red.

[Chemistry protects crops] Khimilia zashenishchaet unozhai. Moskva, Izd-vo "Znanie," 1964. 27 p. (Novoe v zhizni, nauke, tekhnike. V Serita: Sel'skoe khoziaistvo, no.12) (MIRA 17:7)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"

GAY DUREVICH, Lennid Intokent 'yevich: ZATOVA, L.A., red.

"Manage of the boodykh. Moskva, Ind."

vo "Znanie," 1965. 31 p. (Novos v zhiraf, nauke, tekhnike. V Seriia; Sel'skoe khozizistvo, no.1)

(Mich 18:1)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

KOROLEV, Boris Aleksandrovich; ZOTOVA, L.A., red.

[Let us intensify our agriculture] Vesti khoziaistvo intensivno. Moskva, Izd-vo "Znanie," 1964. 32 p. (Novoe v shizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.11) (MIRA 17:7)

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5" CIA-RDP86-00513R002065510007-5"

BALYURA, Vladimir Ivanovich, kand. sel'khoz. nauk; ZOTOVA, L.A., red.

[Breeding of early ripening types] Selc' Ita na skom respelost'. Moskva, Izd-vo "Znanie," 1964. 44 p. (Novoe v zhizni, nauke, tekhnike. V Seriia: Sel'skoe khoziaistvo, no.9) (MIRA 17:6)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 GIA-RDP86-00513R002065510002-5 CIA-RDP86-00513R0020655100d7-5 233214PROVED FOR RELEASE Thursday, September 26, 2002 ACC NR. AT6008782 UR/2557/65/000/014/0003/0019 BOURCE CO試: AUTHOR: Nikolayevskiy, I. F., Perel'man, B. L., Skorik, K. T., Zotove, I. G. ORG: none \mathbb{N} TITLE: Low-temperature parameters of transistors 17 SOURCE: Poluprovodníkovyver pribory 1 ikh primemeniye; sbormík statey, no. 14, 1965, 3-19 TOPIC TAGS: germanium, transistor, parameter APSTRACT: Theoretical and experimental data regarding current amplification and input and output impedance of various types of the transfetours in the low-temperature ranges are considered. An experimental liquid mitrogen refrigeration chamber is described; this chember keeps the temperature of the medium within the low temperature range, down to -1600, with deviations not exceeding + 20. The aim of the study was to fill the existing gap in the theoretical and experimental data on the low-frequency operation of germanium transistors in the low-temperature range down to -1400. Graphs and data presented in the original article on temperature dependences of transistor electric parameters are based on measurement results from 10--40 transistors of each type tested. Orig. art. has: 14 figures, 1 table, and 25 formulas.

SUB CODE: 09/

SUBM DATE: none/

ORIG REF: 003/

OFH RHF: 002/

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UDC: 621.382.342.029.45

ACC NR: AP7003850

SOURCE CODE: UR/0122/67/000/001/0068/0070

AUTHORS: Zotova, L. K. (Candidate of technical sciences, Docent); Shashkin, A. S. (Candidate of technical sciences); Gel'fond, A. S. (Engineer)

ORG: none

TITLE: New chip-breaking mechanisms for turning lathes

Vestnik mashinostroyeniya, no. 1, 1967, 68-70 SOURCE:

TOPIC TAGS: lathe, cutting tool, high speed metal cutting, alloy, steel/ T5K10 alloy, 1K62 lathe, 1Kh18N9T steel, 2Kh13 steel, 40Kh steel, 30KhGSNA steel

ABSTRACT: Gear-and-lever chip-breaking mechanisms for lathes are described. The breaking method used here was described earlier by L. K. Zotova, A. S. Shashkin, and A. S. Gel'fond (Universal'nyye struzhkolomatel'nyye mekhanizmy dlya tokarnykh stankov. M., COSINTI, No. 21-64-763/8, 1964). The mechanisms provide diverse and controllable rules for cutting-tool feed (see Fig. 1). Control tests were performed with T5K10 hard alloy and with 1Kh18N9T, 2Kh13, 40Kh, and 30KhGSNA steels. It was found that intermittent cutting ensured reliable and stable chip breaking over a fairly wide range of machinable materials, cutting conditions, and tool geometry. High-speed turning with the use of the described mechanisms provides safer operating conditions, since the chips are obtained in the form of short, coiled spirals. The mechanism permits the lathe to be switched from intermittent to continuous cutting. Application

_1/2

ACC NR: AP7003850

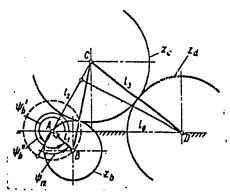


Fig. 1.

of these mechanisms does not interfere with the general-purpose operation of a lathe when properly designed. Orig. art. has: 2 formulas, 2 diagrams, and 3 graphs.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 005

Card 2/2

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVA, L. K.

"Investigation fo the Process of the Curling of Shavings in the Presence of High-Speed Cutting." Him Heavy Machine Building USSR, Central Sci Hes Inst of Technology and Machine Building (TsHITTinsh), Moscow 1953 (Dissertation for the Degree of Candidate of Technical Sciences)

SO: Knizhnaya Letopis', No. 32, 6 Aug 55

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVE L.K. LASAREY, G.S., DEDUCHENKO, N. 1.

Investigating the performance of cutting tools having multifaced nard-alloy bits. Stan. i instr. 36 no.6:33-35 Je 165. (MIRA 18:8)

SOV/124-57-4-4752

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 4, p 126 (USSR)

AUTHOR: Zotova, L. K. (Fund Lech Sci)

TITLE: On the Process of Curling of Metal Shavings (O profsesse struzh

kozavivaniya)

PERIODICAL: Sb. statey. Ural'skly politekhn, in t, 1956, Nr 63, pp 63-69

ABSTRACT: The problem of controlled chipping is discussed as one of the aspects brought into foreground by the adoption of high-speed metal-cutting methods. Hot, sharp-edged sharings present a hazard for the operator and are unwieldy in transportation; it is, therefore, desirable that safe, curled shavings be produced in the course of machining. Certain considerations are presented permitting rational selection and design of attachments to induce the curling of shavings. On the strength of his own experimental data, the author concludes that a reduction in the width of contact between the cutting tool and the shaving results in a reduction of the curvature of the latter. See

also RZhMekh, 1957, Nr 4, abstract 4743.

G.S.Shapiro

Card 1/1

ZOTOVAL. L.M., kand.ekonom.nauk

Estimating the operations of furniture enterprises. Der.prom.

(MIRA 15:4)

1. Nauchno-issledovatel skiy ekonomicheskiy institut Gosekonomsoveta SSSR. (Furniture industry)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

USSR / General and Special Zoology. Insects.

P

Abs Jour: Ref Zhur-Biol., No 3, 1958, 11706

Author : Zotova L. M.

Inst: Not given
Title: The Effectiveness of the Use of Aviation in the

Control of Pests.

Orig Pub: Sakharna a svekla, 1957, No 2, 37-39.

Abstract: No abstract.

Card 1/1

13

YAGUPOL'SKAYA, L.N.; GRABIN, V.F.; ZOTOVA, L.M.

Effect of isothermal holding at 70° c on the corrosion resistance of welded joints in the AMg6 alloy. Avtom. svar. 17 no.8:31-35 Ag 164.

1. Institut elektrosvarki imeni Patona AN UkrSSE.

September 26, 2002 CIA-RDP86-00513R002065510007-5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5" JH/JD/WW/JG/WB EWT(m)/EWP(t)/ETI IJP(c) SOURCE CODE: UR/0413/66/000/011/0128/0128 L 35871-66 ACC NR. AP6021486 INVENTOR: Rabkin, D. M.; Yagupol'skaya, L. N.; Langer, N. A.; Dovbishchenko, I. V.; Nikitina, A. V.; Zotova, L. M.; Martynova, N. A.; Yelagin, V. I.; Ishchenko, A. Ya.; TITLE: Filler-wire for argon-shielded arc welding of aluminum. Class 49, No. 162467 ORG: none [announced by the Electric Welding Institute im. Ye. O. Paton (Institut elektrosvarki) SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 128 TOPIC TAGS: welding, aluminum welding, arc welding, argon, shikalidentary welding, velding wire, aluminum wire, chronium municiping whee, ningundum containing allows, 3 wearing allows, allows and allows allows and allows allows and allows allows allows and allows all ABSTRACT: This Author Certificate introduces a filler-wire for argon-shielded arc welding of aluminum. To improve the weld corrosion resistance, the wire contains 0.8-1.2% chromium and 0.7-1.2% zirconium. SUB CODE: 11, 13/ SUBM DATE: 25Dec53/ ATD PRESS:5 13/ Cord 1/1 ///-

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVA, L.P.; YASTRZHEMBSKIY, A.L.

Floating valves of flush tanks and their principal technical characteristics. Sbor. trud. NIIST no.11:133-145 '62 (MIRA 18:1)

ZO — "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

AKOVBYAN, A.A., professor; ZOTOVA, M.E.; FILATOVA, A.A.; TIXHONOV, V.F.

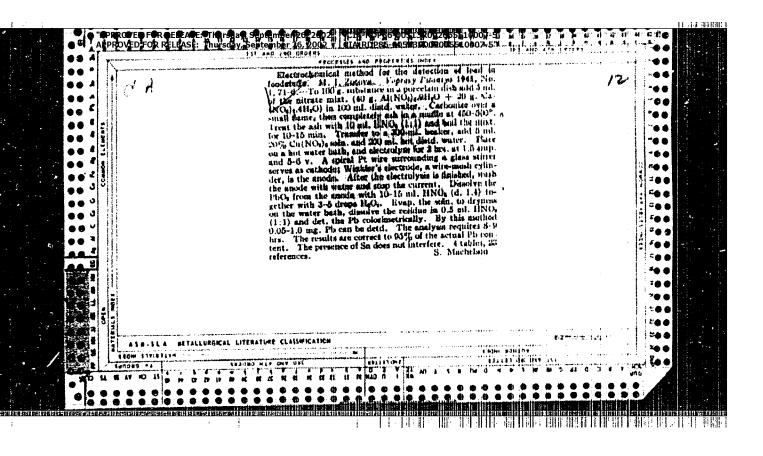
Exmonovocillin in the treatment of syphilis. Vest. ven i derm. no.4: 46-48 J1-Ag '54. (MLRA 7:8)

1. Is kafedry koshnykh i venericheskikh bolezney (zav. prof. A.A. Akovbyan) Tashkentskogo meditsinskogo instituta imeni V.M.Holotova. (PENICILLIN, deratives.

*procaine penicillin, ther. of syphilis, with ekmolin) (SYPHILIS, therapy,

*penicillin, procaine, with ekmolin)
(ANTIBIOTICS, therapeutic use,

*ekmolin in syphilis, with procaine penicillin)



J-3

USSR/Soil Cultivation. Mineral Fertilizers.

Abs Jour: Ref Zmur-Biologiya, No 1, 1958, 1256.

Author : Kodanev, I., Zotova, M.

: Gor'kovskiy Combination Station.

: Experiments of the Gor'kovskiy Combination Station. Inst Title

Orig Pub: Udobreniye i urozhay, 1956, No 8, 56-57.

Abstract: It has been established that nicrogen fertilizers have a favorable effect on cover crop (barley) yields and a negative one on the clover-timothy combination. When applied. to a lucerne-grass mixture, the grass harvest increases; but the reaction of the lucerne upon nitrogen fertilizers is less favorable, as is the growth of the lucerne in combination with the grass element. Phosphorous-potassium fertilization of the cover crop increased the yield of clover

: 1/2 Card

-26-

- Fertilizers.

ADS Jour: Ref Zhur-Biologiya, No 1, 1958, 1256.

J-3

and lucerne, especially in the first year of its application. These grasses are recommended for use in field rotations in regions where grass can be sown successfully.

Card : 2/2

-27-

ZOTOVA, M. G. Cand Biol Sci -- "Curative effect of unithicle in radiation sickness caused by introduction of polonium." Mos, 1961 (Acad Med Sci USSR). (KL, 4-61, 192)

105 (4) (8) (8)

APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5

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AUTHORY

Zotova, h. a.

TITLE:

water-soluble adenousmetriphosphatase in the organs of

rats irradiated with polomium

refrictional: Radiobiologiya, v.S. no.1, 1963, 21-23

The sienusinetrionosphatame actavity during acute BICKHOIS WAS BYDGIRD. ACUTE PROBERTION SICHRESE WAS induced in rate by the subcutameros injection of polymous in a tise it is acuting, and the abendantetriphosphatase activity of we internal organo was lettermined in animals sulled at intervals to a lass sitem in engine of 500 mg sample of each organ was The suspension was THE RESERVE OF STREET $(n_{i,j+1},\dots,n_{i-1})(t) = 0$ ्रेट्रीयर्थर्थास्य र .e चार्मस्थान $y = \mathbf{x} \in \mathbf{x} \in \mathcal{A}(\mathbf{A}^{(n)})$ approvation records expressed as the recognition at all algebras end, and design prosperse withouted you but may it thesh tissue. It winted determinations with normal resultne mean activity of the Kidney was 33, the liver 72, spider op and break 30. In the experimental rate a fall of up to ook in these values set in during the fixet Card 1/2

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Water-soluble adenosinetriphosphatase. $\frac{$/205/65/003/001/005/029}{$0020/8105}$

lays after exposure to radiation, after which the activities rose but did not return to normal levels. These results agree with those previously obtained by the author on the scute decrease of the matter of SH-groups parama possible induced radiation sickness. The fact that the engyse activity is smeasure affet ditermal irest and recrease safter afternoonly be explained by the (a) Lation Assays in the first case and impactions in the so, i so, ly the duration of directation as single mign dose inter one one in the second. There are d tables.

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TO A COMPANY OF THE PROPERTY O "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVA, M.G.

Water-soluble adenosinetriphosphatase in the organs of rats affected by polonium. Radiobiologiia 3 no.1:21-23 '63.

(MIRA 16:2)

(ADENOSINETRIPHOSPHATASE) (POLONIUM-PHYSIOLOGICAL EFFECT)

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CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5

"A Description of the Medicinal Effect of Unithiole in Polonium Injury."

report presented at the 146th meeting of the Pharmacology and Toxicology Section of the Moscow Society of Physiologists, Biochemists and Pharmacologists, 25 Mnr. 1958.

II Moscow Medical Institute

(Farmakologiia i Toksikologiia, 21, no 6, Nov-Dec 58, p. 617)

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVA, M.G. (Moskva)

Effect of unithiol in the secretion of polonium (Po²¹⁰) from the body. Med.rad. 3 no.6:67-68 N-D '58. (MIRA 12:1) (POLONIUM IN THE BODY) (PROPARESULFONIC ACID)

"APPROVED FOR RELEASE: Thursday, September 26, 2002"; "CIA-RDP86-00515R00206551000715"
APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00515R00206551000715"

L 1937-66 ENT(1)/ENT(m)/EMA(b)-2 &C ACCESSION NR: AF5024175

UR/0290/45/000/002/0111/0119633.88.03+615.32

AUTHOR: Zotova, M. I.; Krylov, G. V.; Saratikov, A. S. 55

TITLE: Golden root - a new atimulant and adaptogenic drug

SOURCE: AN SSSR. Sibirskoye otdeleniye. Izvestiya. Seriya bilologo-medicsimakiki

TOPIC TAGS: plant growth, pharmacognosy, experimental animal, ninvous system drug drug effect, bodily fatigue, psychophysiology, Eleutherococcus, Woodiole roods

ABSTRACE: Rhodfola rosea (golden root) is described in distail and its pharmacological effects are compared with those of Eleutherococcus. Literature data on the effects of Rhodfola rosea are contradictory, largely because of different drying and extraction methods. In the present study, Rhodfola rosea roots gathered in the Altai region were dried at 60° and extracted by a reperculation method using the following as solvents: 0.5% aqueous chloroform, 20° othyl allochol, 40° ethyl alcohol, and 70° ethyl alcohol. The stimulant effect of the extract was destermined by changes in the lengths of time white side were able to cling to a vertical rode extracts reduce body fatigue, but to different degrees: the 40° alcohol antiratt by

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ACCESSION NR: AP5024175

350%, the 20° alcohol extract by 99%, the aqueous chlorofform entract by 95%, and the 70° alcohol extract by 51%. The antihypnotic effect of Rhudiola roses extract was investigated in white mice by injecting it subcutameously 1 hr before administering medinal (0.15 mg/g dose). Rhudiola roses entract did not change the time elapsed before the animal fell asleep, but did meduce the duration of sleep considerably. The sleep period was reduced by 64 min by the 40° alcohol extract, and by 21 to 28 min by the other extracts. In testing the adaptogenic effects of Rhudiola roses, the extract was found comparable to Eleutherotoccus and other adaptoges in inhibiting the development of centain pathological hematological reactions. Considering the similarity of the attendant and adaptogenic effects of Rhudiola roses and Eleutherotoccus, and the abundance of Fhudiola roses in the USSR (Altais, Urals, Intutsk, Zabaykak, Primorskiy Kray, Kamchatka, and Chukhotsk Peninaula), Rhudiola roses liquid extract is recommended for videspread clinical testing. Orig. art. has: 5 figures and 3 tables. [(06)]

ASSOCIATION: Towakiy meditainakiy inacitul (Towak Madical Institute), Biologicheskiy

ATT PIPES - 11

and thought one of a market madeller. There are whate tall and help to be to be within a solution of "APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5" ZOF

KODAHEV, I.M.; ZOTOVA, M.L.

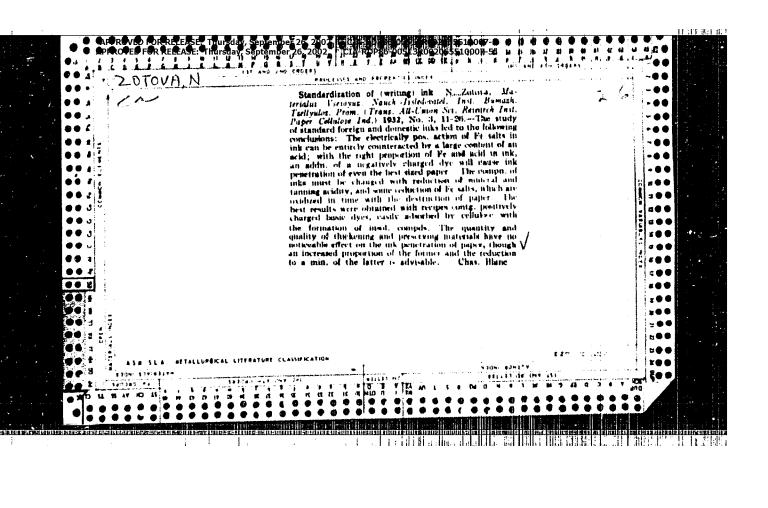
Effect of cultivation methods on barley productivity and brewing qualities in Gorkiy Province. Trudy VNIIFP no.5: 159-176 '55.
(MLBA 9:1)

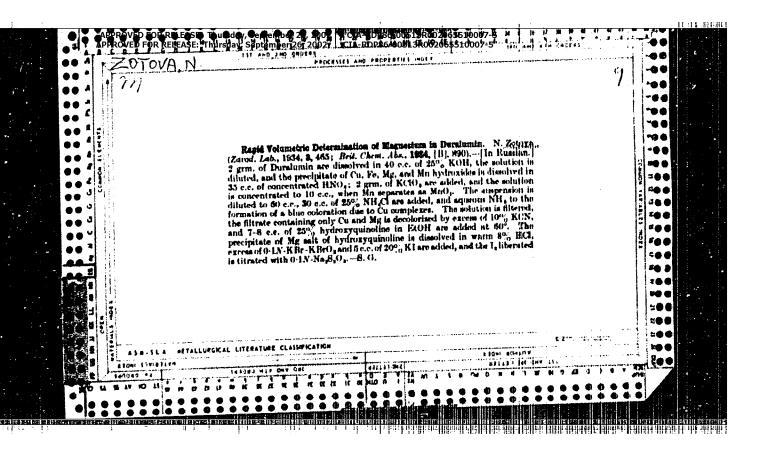
(Gorkiy Province--Barley)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
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CIA-RDP86-00513R002065510007-5
CIA-RDP86-00513R002065510007-5

ZOTOVA, K.

Development of Aurenia's emport resources and import requirements, Vensh. torg. 41 nc. 2:39-44 '51. (MIN 14:2) (NUMANIA-Foreign economic relations)





"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

ZOTOVA, N. A.

Dissertation defended for the degree of Candidate of Economic Sciences at the Institute of Economics

"Foreign Trade of the Rumanian People's Republic with the Soviet Union and Its Role in Building the Socialist Economy of Rumania."

Vestnik Akad. Nauk, No. 4, 1963, pp 119-145

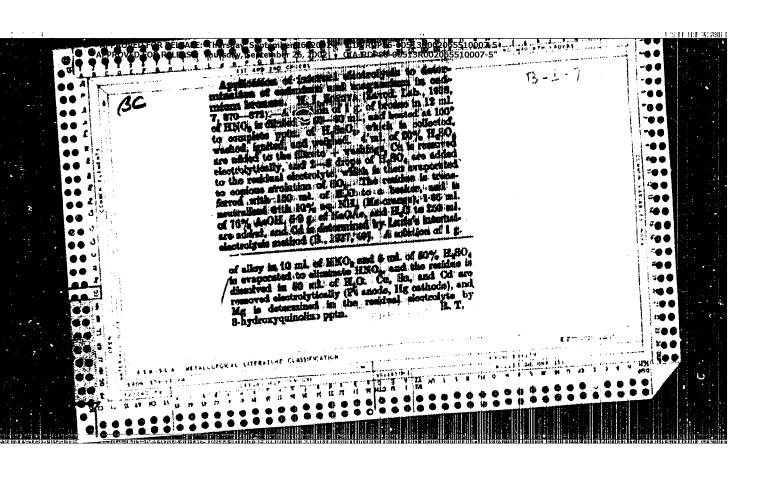
SERGEYEV, V.P.; TARNOVSKIY, O.I.; MITROFAROVA, N.M.; SHRELEV, N.P.;
SHABUNINA, V.I.; SKUORISOVA, A.I.; VASIL'TSOV, V.D.;
KRASNOGLAZOV, B.P.; EELYAYEV, Yu.N.; KURAKIN, V.A.; YUMIN,
KRASNOGLAZOV, D.P.; ZOTOVA, N.A.; MATVITEVSKAYA, E.D.;
M.N.; SERGEYEV, V.P.; ZOTOVA, N.A.; MATVITEVSKAYA, E.D.;
NOVICHKOVA, N.D., tekhn. red.

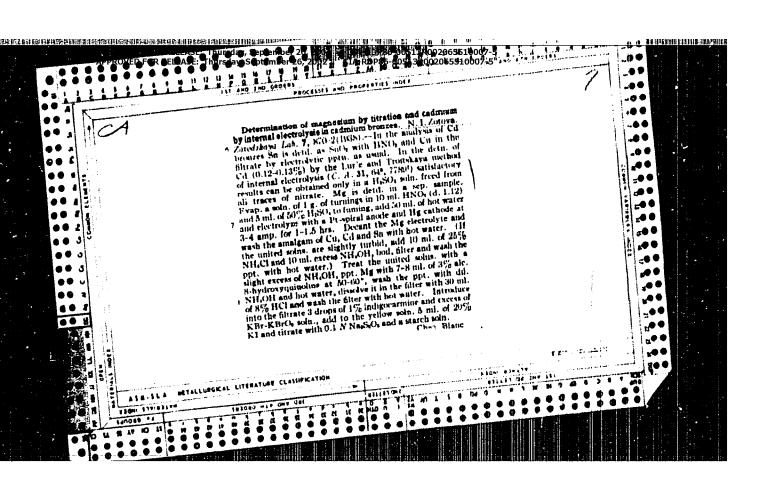
[Economic cooperation and mutual aid in socialist countries]Ekomonicheskoe sotrudnichestvo i vzaimopomoshch' sotsialisticheskikh
nomicheskoe sotrudnichestvo i vzaimopomoshch' sotsialisticheskikh
nomicheskoe, Izd-vo Akad. nauk SSSR, 1962. 272 p.
stran. Moskwa, Izd-vo Akad. nauk SSSR, 1962. (MIRA 162)

1. Akademiya nauk SSSR. Institut ekonomiki mirovoy sotsialisti.

(Communist countries—Foreign economic relations)

(Communist countries—Industries)





PRIVED, M.O.; MYPENE, M.I.

Effect of external and internal factors on the formation of collateral pathways of the lymph flow. Arkhiv. nach. pist. (P.THA 15:6) embr. 43 no.10:102-108 0'62.

REINERREINISA

1. Kafedra normal'nov anatomit (zav. - prof. M.G. Prives) lago leningradakogo meditalnakogo instituta imeni akademika favlova.

ZOTOVA, N.I.

Effect of the disturbance of the integrity of the optic thalamus on the arterial collateral blood supply to the stomach. Arkhanat., gist. i embr. 49 no.8:45-50 Ag '65. (MIRA 18:9)

1. Kafedra normal'noy anatomii (zav. sasluchennyy deyatel' nauki prof. M.G. Prives) 1-go Leningradskogo meditsinskogo instituta imeni akademika I.P. Pavlova.

BABIN, Ye.P.; KUZ MENKOV, A. 4.3 ZOTOVA, N.L.

Beron fluoride as catalyst in reactions premoting the removal of sulfur from coke chemical benzenes. Thur.prikl.khim. 38 no.6:1253-(MIRA 18:10) 1256 Je 165.

1. Donetskoye otdaleniye Instituta organicheskoy khimii AN UkrSSr.

ZOTOVA, N. N. (USSR)

"Biochemical Processes in the Conditioning of Wheat."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

Effect of wheat moistening on the glutamic decarbaxylase

Effect of wheat moistening on the glutamic decarbaxylase

Effect of wheat moistening in the glutamic decarbaxylase

Effect of wheat moistening on the glutamic decarbaxylase

1. Moskovskiy takhnologicheskiy institut pishahavay promyahlennosti. 2. Chlen-korrespondent AN SSR (for Fretorica).

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	ENTE (LEGIS ESS.)			sday, September 26, day, September 26,			02065510007-5				
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L 3631-66 EWT(1)/EWT(m)/EWP(t)/EWP(b) ACCESSION NR: APSO24049 IJF(c)

AUTHOR: Zotora, N. V.; Nasledov, D. N.; Sresell, O. M. UB/0057/65/035/b09/1672/167L 621.382.61 TITLE:

n-type gallium arsenide Hall transducers

SOURCE: Zhurmal teknicheskoy fiziki, v. 35, no. 9, 1965, 1672-1674

TOPIC TAGS: Hall effect, Hall constant, electron mobility, gallium arsenide, magnetic field measurement, high temperature instrument

ABSTRACT: The authors have constructed and tested Hall transducers of highly purified GaAs. The preparation, purification, and deping (if any) of the materials is 1000 cm /C and electron mobilities from 3500 to 5000 cm /V sec. Materials with electron ectron concentrations above 1017 cm 3 mere unsuitable because of their low Hell constants. The greatest difficulty in fabricating the transducers was encountered in securing adequate metallic contacts. The contacts were of tim and were fused to the semiconductor in vacuum at 400-450 °C for 5 min. These contacts could be used at temperatures up to 210 °C, but the contact resistance was some 30% of the total resistance of the instrument. The eight transducers tested varied slightly in size, a typical one measuring 8.6 x 2.5 x 0.23 rm. For each transducer the current Two large characteristic was determined, the Hall emf was measured by an open-cirL 3631-66

ACCESSION NR: AP5024049

cuit compensation method as a function of magnetic field strength for a fixed value of the current (ranging from 50 to 300 mA), and the temperature coefficient of the Hall emf was measured at a constant magnetic field strength of 10 900 Ce at temperatures from 30 to 210 °C. The temperature coefficient is given for only one of the transducer; this transducer had a sensitivity of h x 10 °C v/de and a temperature coefficient of 0.029 % per degree. The principal advantage of the GaAs Hall transducers is that they combine a low temperature coefficient over a wide temperature range with a reasonable sensitivity. Development of better metallic contacts will make it possible to increase the temperature range over which the instrument can be used and also to increase the current and thereby the sensitivity. Orige art. has: 3 formulas, 2 figures, and 2 tables.

ASSOCIATION: Fiziko-tekhnicheskiy institut im. A.F. Ioffe AN SSSN, Leningrad (Physico-technical Justitute, AN SSSR)

SUBMITTED: 21Jan65

ENCL: 00

SUB CODE: IM TO

NO REF SOV: 004

OTHER: 000

BVK 2/2

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007:5 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007:5" BMT(1) 'EMG(1r)/BMP(5)/EWT(8)/BDS/EED(6)+2 AFFTC/ASII/RSD-3/ STUTCE: Radiotekhnika i elektronika, v. 8. no. s. 1903, 1602-1606 INCID TAGS: indium arsenice pen junction, ben junction, tennel pen sunction, indium arsanide FIREBACT: Properties of diffused ona junctions made from Inds are rescussed. Single-crystal nether indiam arsemine with a Hall deseneme of the estimate and a constitution of approximately ter weset with wisk to the initial moternal. Fillowing The regular expression to see the second of a control ware plant. thester with a patch of causely on a justic annual where the file fusion process type place at Toyl Saturated vapor pressure was fixed by the lowest temperature of the existed (fie., 5000). After licity, on, the surrest to the require of accepting in the political was particled by Licity and the complete principle of accepting thickness. Card 1/2 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5*

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APPROVED FOR RELEASE THURSDAY, SEPTEM

"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5" CIA-RDP86-00513R002065510007-5"

Country

: Vasa

Catogory

: General Problems of Pathology. Phthophysiclogy

of Infections Process

Abs. Jour. : Ref Zhur-Biol, 1959, No 4, 18179

Author Institut.

Title

: Zotova, N. Yo. : Uzbekistan Scientific Research Dermatovenereo-* : Antitoxic Liver Function in Patients with Syphilis froated According to the Flans for

1949-1951.

Orig Pub.

: 3b. tr. Uzoekist. n.-1. kozhno-veneral. in-te,

1957, 6, 257-261

Abstract

: The antitoxic function of the liver (AFL) was studied in 101 patients with syphilis. The quanof hippuric acid excepted in the urine, in the amount equivalent to 3.7 g. of sodium benzoate, was taken as 100%; the range between 70% and 100% was considered normal. Before treatment, the AFL of 51 out of 101 patients was normal or close to normal (100%-60%); in 24

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CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5 APPROVED FOR RELEASE: Thursday, September 26, 2002

04785-67 EWT(m)/EWP(t:/ETI IJP(c) ACC NR: AP6024467

SOURCE CODE: UR/0181/66/008/007/2074/2076

AUTHOR: Zotova, N. V.; Lebedev, A. A.; Nasledov, D. N.

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ORG: Physicotechnical Institute im. A. F. Ioffe, AN SSSR, Leningrad (Fizikotekhnicheskiy institut AN SSSR)

TITIE: Diffusion of cadmium in indium arsenide
SOURCE: Fizika tverdogo tela, v. 8, no. 7, 1966, 2074-2076

TOPIC TAGS: cadmium, physical diffusion, indium compound, arsenide, pn junction, semiconductor impurity

JD

ABSTRACT: In view of the limited amount of systematic data concerning the diffusion of impurities in indium arsenide, the authors present some new results on the diffusion of Cd in InAs of n-type. The donor content was $4 \times 10^{16} - 6 \times 10^{19}$ cm⁻³. The tests were made on single-crystal indium arsenide, both pure and doped with tellurium and selenium. The diffusion was in saturated cadmium vapor at 750 - 780C and 10^{-6} mm Hg. The depth of the p-n junction was determined by the removal of layer method and determination of the sign of the charge from the thermal emf. The results show that the diffusion of Cd in InAs depends on the initial concentration of the donor impurity but not on the nature of the donor; the diffusion coefficient decreases with increasing impurity concentration in the initial substance. The decrease in the diffusion coefficient in strongly doped material is sho-n to be connected with the formation of donoracceptor pairs which diffuse more slowly than free acceptors. Orig. art. has: 2

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5"
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ACC NR: AP6024467
figures, 2 formulas, and 2 tables.
SUB CODE: 20/ SURM DATE: 07Dac65/ ORIG REF: 001/ OTH REF: 001

Card 2/2 pla

ZOTOVA, N.I.

Effect of disruption of unity of the premotor zone on collateral circulation of the stomach. Biul. eksp. biol. 1 med. 40 no.12: 55-59 D 155 (HIRA 9:3)

and the control of the control of the control of the

1. Is kafedry normal'noy anatomii (mav.-prof. M.G. Prives) i Leningradskogo meditsinskogo instituta imeni I.P. Pavlova (dir.-dotsent A.I. Ivanov)

(CEREBRAL CORTEX, physiology,
eff. of exper. lesions on collateral circ. of stomach
in cats)
(STOMACH, blood supply,
eff. of exper. lesions of cerebral cortex on collateral
circ. in cats)

"APPROVED FOR RELEASE: Thursday, September 26, 2002
APPROVED FOR RELEASE: Thursday, September 26, 2002
ZOTOVA, N.N.; KRETOVICH, V.L.

Biochemistry of wheat conditioning. Izv. AN SSSR. Ser. biol. 26 no.5: 708-716 S-0 '61. (MIRA 14:9)

1. Technological Institute of Food Industry and Institute of Biochemistry, Academy of Sciences of the U.S.S.R., Moscow. (GRAIN HANDLING)

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24 (6) 24,7600

66273

AUTHORS:

Zotova, N. V., Nasledov, D. N.

507/181-1-11-8/27

TITLE:

Hall Generators From Indium Arsenide for the Measurement of the Magnetic Field Strength

PERIODICAL:

Fizika tverdogo tela, 1959, Vol 1, Nr 11, pp 1690-1694 (USSR)

ABSTRACT:

From the stoichiometrically composed source materials the indium arsenide is prepared by vacuum melting at 1000°C. The melt was subjected to a zone purification which made possible the examination of the final monocrystalline and polycrystalline samples of the n-type, having an impurity concentration of 1.6 . 10 16 to 10 10/cm³, as to their most important properties. The temperature dependence of the electrical conductivity is shown in figure 1 for 3 different values of n and a temperature range -196°C - +400°C. The dependence of the Hall constant R on temperature is illustrated in figures 2 and 3. At an impurity concentration of 2 . 10 17/cm3 R varies by 0.02% per 100 and at a concentration

of 3 \cdot 10¹⁶/cm³ only by 0.08%. It was established that R does not depend on H up to 21000 Oe. Primary elements were

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Hall Generators From Indium Arsenide for the Measurement of the Magnetic Field Strength

SOV/181-1-11-8/27

prepared from the samples with the properties described. They consist of platelets (length = 8-5 mm, width 4-3 mm, thickness 0.2-0.1 mm), with 4 or 5 electrodes: 2 current and 2 or 3 Hall electrodes. The platelets are glued on mica and are sometimes placed into small metallic boxes, for better cooling. The contacts are prepared with special care so that only ohmic contacts can occur. The following characteristic properties of the primary elements are measured by the usual method: a) Hall EMF (3 different samples) versus field strength in the temperature range +20 - +550c (Fig 8), b) Hall EMF versus control current (Fig 9). In a sample of $n = 3 \cdot 10^{17}/\text{cm}^3$ the optimum current density is $j = 90 \text{ a}/\text{cm}^2$, in a sample of $n = 2 \cdot 10^{16}/\text{cm}^3$, however, it is 60a/cm^2 . c) the sensitivity of the primary element is measured for 5 different samples (see Table). d) The influence of the shape of the sample on the EMF occurring in the Hall electrode is investigated (Fig 10). e) The accuracy of the H measurements was

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Hall Generators From Indium Arsenide for the Measurement of the Magnetic Field Strength

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0.8, 0.6 and 0.5% for 300, 1000, and 3000 0e, respectively. After a continuous 7-hour operation the values of the primary elements can all be reproduced with an accuracy of 0.5%. There are 10 figures, 1 table, and 9 references.

ASSOCIATION:

Fiziko-tekhnicheskiy institut AN SSSR, Leningrad (Physico-technical Institute of the AS USSR, Leningrad)

SUBMITTED:

March 4, 1959

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"APPROVED FOR RELEASE: Thursday, September 26, 2002 APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

YESINA, N.P.: ZOTOVA, N.V.; NASLEDOV, D.N.

P-n junctions in indium arsenide. Radiotekh. i elektron. 8 no.9:1602-1606 S '63. (MIRA 16:9) (Semiconductors) (Transistors) (Indium arsenides)

20084

9,4300 (and 1035,1143, 1150)

S/105/61/000/003/001/001 B116/B206

AUTHORS:

Nasledov, D. N. and Zotova, N. V.

TITLE:

Instrument for measuring direct currents of up to 40 ku

PERIODICAL:

Elektrichestvo, no. 3, 1961, 70-73

TEXT: This is the description of an instrument similar to those developed by the Siemens-Schuckert Plants in the Federal German Republic (Refs. 2,3). It was developed by the authors for the purpose of measuring direct currents of up to 40 ka with an error of measurement of about 0.7%. The instrument is based on measuring the magnetic-field strength, the field being produced by the direct current by means of Hall generators developed by the authors. These Hall generators are made from indium arsenide (semiconductor) (Ref. 1). The new instrument differs from those used in the USSR for measuring direct currents by the following facts: it can easily be placed on a conductor rail and measure the current in any section of the rail; the instrument has a millivoltmeter of the class of accuracy of 0.5 and a linear scale in the entire measuring range; the instrument indications do not depend on outside effects of Card 1/7

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Instrument for measuring direct ...

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foreign magnetic fields, foreign steel masses etc; the instrument has a sufficiently low error of measurement; the indications do not depend on the temperature up to + 50°C (the lower limit is unrestricted); the measuring process and calibration of the instrument are very simple; the Hall generators used in the instrument are exchangeable and reliable; the instrument is not sensitive to overloads and consumes a maximum of the instrument is not sensitive to overloads and consumes a maximum of 1.5 w. The basic circuit diagram for connecting the two Hall generators is shown in Fig. 1. The rails conducting the direct current to be measured are gripped by the steel yoke consisting of two U-shaped parts. The Hall generators are placed in the two air gaps formed between these parts. It is shown that the sum of the magnetic-field strengths H₁ and

 H_2 in the two gaps of the width l_1 and l_2 respectively will only be proportional to the measured current I, if H_{Fe} l_{Fe} l_{Fe} is the magnetic-field strength along the path l_{Fe} in the steel. This condition is only fulfilled in a material with steep magnetization curve and narrow hysteresis loop. Such a material is cold rolled silicon sheet steel

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Instrument for measuring direct ...

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XBN (KhVP), which shows a high saturation induction, making it possible to obtain great magnetic-field strengths in the air gaps. The neglect of H in comparison to I is the only fault of this direct-current measuring method. The instrument is described in short with the aid of Fig. 2. The yoke is made from KhVP steel and consists of thin lamellas, in order to prevent heating owing to eddy currents. Between the two yoke parts there are very exactly machined calibrated copper cups. The yoke dimensions are: 114 x 87 x 30 cm. The surface of the recess for the rail is 37 \times 34 cm. The air gap is 3 cm. The weight of the yoke is 1600 kg. The Hall generators were made from indium arsenide and showed a sensitivity of about 100 $\mu v/\ddot{o}$. It was possible to reduce the potential drop at the Hall contacts to from 0.05 to 0.2 mv for H = 0. The control panel consists of two indicating instruments of precision class 0.5 (a milliammeter for measuring the control currents of both transmitters and a millivolt. meter calibrated in kiloampere) and a circuit for separate transmitter feeding, compensating the foreign emf and measuring the Hall emf. Each Hall generator has its own, accurately selected load resistance, since not only the Hall emf, but also the linearity of the scale depends on it.

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Instrument for measuring direct ...

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Provision is made for a recording device to be added on the panel.

Fig. 3 shows the basic circuit diagram of the panel. In this circuit the microammeter with the resistor connected in series serves as recording arparatus. The instrument scale is strictly linear for measurements of up to 40 ka and remains so up to 50 ka, if the air gap is increased to 4 cm. The great weight of the instrument is mentioned as a drawback. Experiments to reduce it have led to a reduction of the measuring accuracy. At present the authors are developing a direct current measuring instrument for currents of up to 100 ka, based on the same principal described here. There are 6 figures and 3 references: 1 Soviet-bloc.

ASSOCIATION: Fiziko-tekhnicheskiy institut AN SSSR (Physicotechnical

Institute of the AS USSR)

SUBMITTED:

December 8, 1956

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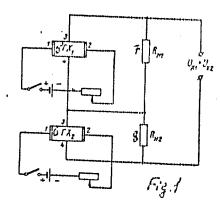
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"APPROVED FOR RELEASE: Thursday, September 26, 2002 CIA-RDP86-00513R002065510007-5 CIA-RDP86-00513R002065510007-5"

Instrument for measuring lines. ...

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Legend to Fig. 1: Basic circuit diagram for connecting the Hall generators. 1) and 2) current contacts of the Hall generators, 3) and 4) Hall contacts, 5) and 6) Hall generators, 7) and 8) their corresponding load resistances ~ 10 Ohm.

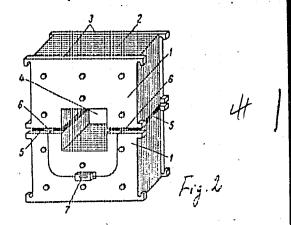


Card 5/7

Instrument for measuring direct ...

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Legend to Fig. 2: General view of the measuring instrument for high direct currents. 1) U-shaped parts of the magnetic conductor, 2) steel yoke, 3) bracket plates from duralumin, 4) recess for the conductor rail, 5) calibrated copper cups, 6) Hall generators, 7) wedge connecting the Hall generators with the control panel.



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Instrument for measuring direct

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Legend to Fig. 3: Basic circuit diagram of the control panel.

1) and 2) accumulators feeding the Hall generators; R₁=R₂ ≈ 60 Ohm variable resistances permitting the generators to be supplied with the necessary control current. 3) and 4) generators. r₁ = 100 Ohm, r₂ = 3 Ohm, r₃ = 100 Ohm resistance for compensating the foreign emf.